

WHAT IS CLAIMED IS:

1. An image processing device which can be connected to an information processing device, comprising:

5 authentication processing means for performing, in response to a request from the information processing device, an authenticating process according to authentication information from the information processing device for authenticating the
10 request;

display information transmission means for transmitting, from the image processing device to the information processing device, display information describing screen contents for operating the
15 information processing device by presenting information about the image processing device when a request from the information processing device is recognized based on an authentication result by said authentication processing means; and

20 second authentication processing means for performing an authenticating process by reading authentication information about a card to be inserted into the information processing device, wherein

25 when a request from an operation unit of the image processing device is recognized based on the authentication result by said second authentication

processing means, the image processing device is operable by said operation unit.

2. An image processing device which can be
5 connected to an information processing device,
comprising:

first authentication input means for inputting,
in response to a request from the information
processing device, authentication information from
10 the information processing device for authenticating
the request;

second authentication input means for inputting
authentication information input from an operation
unit of the image processing device or a card reader;

15 authentication processing means for performing
an authenticating process according to authentication
information input by said first authentication input
means or said second authentication input means, and
authentication information in the image processing
20 device; and

display information transmission means for
transmitting, from the image processing device to the
information processing device, display information
describing screen contents for operating the
25 information processing device by presenting
information about the image processing device when a
request from the information processing device is

recognized based on an authentication result by said authentication processing means, wherein

when an operation in the operation unit or a request from the information processing device does not match an operation being performed in the image processing device, the operation in the operation unit or the request from the information processing device is accepted based on an authentication result by said authentication processing means.

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3. An image processing device which can be connected to an information processing device, comprising:

authentication processing means for performing, in response to a request from the information processing device, an authenticating process according to authentication information from the information processing device for authenticating the request;

display information transmission means for transmitting, from the image processing device to the information processing device, display information describing screen contents for operating the information processing device by presenting information about the image processing device when a request from the information processing device is recognized based on an authentication result by said

authentication processing means; and

second authentication processing means for
performing an authenticating process according to
authentication information input by an operation unit
5 of the image processing device or a card reader,
wherein

when a request from the operation unit is
accepted based on an authentication result by said
second authentication processing means, a request to
10 operate the image processing device from the
information processing device is not accepted.

4. An image processing device which can be
connected to an information processing device,
15 comprising:

authentication processing means for performing,
in response to a request from the information
processing device, an authenticating process
according to authentication information from the
20 information processing device for authenticating the
request;

display information transmission means for
transmitting, from the image processing device to the
information processing device, display information
25 describing screen contents for operating the
information processing device by presenting
information about the image processing device when a

request from the information processing device is recognized based on an authentication result by said authentication processing means;

second authentication processing means for
5 performing an authenticating process by reading authentication information input by an operation unit of the image processing device or a card reader, wherein

when a request from the information processing
10 device is accepted based on an authentication result by said authentication processing means, a request to operate the image processing device from the information processing device is not accepted.

15 5. The image processing device according to claim 1, wherein:

said authentication processing means and said second authentication processing means perform an authenticating process on the same authentication
20 information as authentication information set in the image processing device.

6. The image processing device according to claim 1, further comprising:

25 identification information transmission means for issuing identification information to the information processing device when a request from the

information processing device is recognized based on
an authentication result by said authentication
processing means, and transmitting the identification
information from the image processing device to the
5 information processing device; and

determination means for determining, in
response to a request from the information processing
device whether or not the identification information
transmitted by said identification information
10 transmission means is added to the request, wherein

when said determination means determines that
the identification information is added, said display
information transmission means transmits the display
information without an authenticating process by said
15 authentication processing means.

7. The image processing device according to
claim 1, wherein:

said display information is described in an
20 HTML; and

said request from the information processing
device and said display information are transmitted
and received according to an HTTP.

25 8. The image processing device according to
claim 2, further comprising:

conversion means for converting a request for

authentication input by said first authentication input means and a request for authentication input by said second authentication input means into a format interpretable by said authentication processing means.

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9. An information processing method for use by an image processing device which can be connected to an information processing device, comprising:

an authentication processing step for
10 performing, in response to a request from the information processing device, an authenticating process according to authentication information from the information processing device for authenticating the request;

15 a display information transmission step for transmitting, from the image processing device to the information processing device, display information describing screen contents for operating the information processing device by presenting
20 information about the image processing device when a request from the information processing device is recognized based on an authentication result by said authentication processing step; and

a second authentication processing step for
25 performing an authenticating process by reading authentication information about a card to be inserted into the information processing device,

wherein

when a request from an operation unit of the
image processing device is recognized based on the
authentication result by said second authentication
5 processing step.

10. An information processing method for use
by an image processing device which can be connected
to an information processing device, comprising:

10 a first authentication input step for inputting,
in response to a request from the information
processing device, authentication information from
the information processing device for authenticating
the request;

15 a second authentication input step for
inputting authentication information input from an
operation unit of the image processing device or a
card reader;

an authentication processing step for
20 performing an authenticating process according to
authentication information input by said first
authentication input step or said second
authentication input step, and authentication
information in the image processing device; and

25 a display information transmission step for
transmitting, from the image processing device to the
information processing device, display information

describing screen contents for operating the
information processing device by presenting
information about the image processing device when a
request from the information processing device is
5 recognized based on an authentication result by said
authentication processing step, wherein

when an operation in the operation unit or a
request from the information processing device does
not match an operation being performed in the image
10 processing device, the operation in the operation
unit or the request from the information processing
device is accepted based on an authentication result
by said authentication processing step.

15 11. An information processing method for use
by an image processing device which can be connected
to an information processing device, comprising:

an authentication processing step for
performing, in response to a request from the
20 information processing device, an authenticating
process according to authentication information from
the information processing device for authenticating
the request;

a display information transmission step for
25 transmitting, from the image processing device to the
information processing device, display information
describing screen contents for operating the

information processing device by presenting
information about the image processing device when a
request from the information processing device is
recognized based on an authentication result by said
5 authentication processing step; and

a second authentication processing step for
performing an authenticating process according to
authentication information input by an operation unit
of the image processing device or a card reader,
10 wherein

when a request from the operation unit is
accepted based on an authentication result by said
second authentication processing step, a request to
operate the image processing device from the
15 information processing device is not accepted.

12. An information processing method for use
by an image processing device which can be connected
to an information processing device, comprising:

20 an authentication processing step for
performing, in response to a request from the
information processing device, an authenticating
process according to authentication information from
the information processing device for authenticating
25 the request;

a display information transmission step for
transmitting, from the image processing device to the

information processing device, display information describing screen contents for operating the information processing device by presenting information about the image processing device when a
5 request from the information processing device is recognized based on an authentication result by said authentication processing step;

a second authentication processing step for performing an authenticating process by reading
10 authentication information input by an operation unit of the image processing device or a card reader, wherein

when a request from the information processing device is accepted based on an authentication result
15 by said second authentication processing step, a request to operate the image processing device from the information processing device is not accepted.

13. The image processing method according to
20 claim 9, wherein

said authentication processing step and said second authentication processing step perform an authenticating process on the same authentication information as authentication information set in the
25 image processing device.

14. The image processing method according to

claim 9, further comprising:

an identification information transmission step for issuing identification information to the information processing device when a request from the information processing device is recognized based on
5 an authentication result by said authentication processing step, and transmitting the identification information from the image processing device to the information processing device; and

10 a determination step for determining, in response to a request from the information processing device whether or not the identification information transmitted by said identification information transmission step is added to the request, wherein

15 when said determination step determines that the identification information is added, said display information transmission step transmits the display information without an authenticating process by said authentication processing step.

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15. The image processing method according to claim 9, wherein:

said display information is described in an HTML; and

25 said request from the information processing device and said display information are transmitted and received according to an HTTP.

16. The image processing method according to claim 10, further comprising:

a conversion step for converting a request for authentication input by said first authentication
5 input step and a request for authentication input by said second authentication input step into a format interpretable by said authentication processing step.

17. A control program for controlling an
10 information processing method for use by an image processing device which can be connected to an information processing device and perform the process comprising:

an authentication processing step for
15 performing, in response to a request from the information processing device, an authenticating process according to authentication information from the information processing device for authenticating the request;

20 a display information transmission step for transmitting, from the image processing device to the information processing device, display information describing screen contents for operating the information processing device by presenting
25 information about the image processing device when a request from the information processing device is recognized based on an authentication result by said

authentication processing step; and

a second authentication processing step for performing an authenticating process by reading authentication information about a card to be

5 inserted into the information processing device, wherein

when a request from an operation unit of the image processing device is recognized based on the authentication result by said second authentication
10 processing step.

18. A control program for controlling an information processing method for use by an image processing device which can be connected to an
15 information processing device and perform the process comprising:

a first authentication input step for inputting, in response to a request from the information processing device, authentication information from
20 the information processing device for authenticating the request;

a second authentication input step for inputting authentication information input from an operation unit of the image processing device or a
25 card reader;

an authentication processing step for performing an authenticating process according to

authentication information input by said first
authentication input step or said second
authentication input step, and authentication
information in the image processing device; and

5 a display information transmission step for
transmitting, from the image processing device to the
information processing device, display information
describing screen contents for operating the
information processing device by presenting
10 information about the image processing device when a
request from the information processing device is
recognized based on an authentication result by said
authentication processing step, wherein

 when an operation in the operation unit or a
15 request from the information processing device does
not match an operation being performed in the image
processing device, the operation in the operation
unit or the request from the information processing
device is accepted based on an authentication result
20 by said authentication processing step.

19. A control program for controlling an
information processing method for use by an image
processing device which can be connected to an
25 information processing device and perform the process
comprising:

 an authentication processing step for

performing, in response to a request from the
information processing device, an authenticating
process according to authentication information from
the information processing device for authenticating
5 the request;

a display information transmission step for
transmitting, from the image processing device to the
information processing device, display information
describing screen contents for operating the
10 information processing device by presenting
information about the image processing device when a
request from the information processing device is
recognized based on an authentication result by said
authentication processing step; and

15 a second authentication processing step for
performing an authenticating process according to
authentication information input by an operation unit
of the image processing device or a card reader,
wherein

20 when a request from the operation unit is
accepted based on an authentication result by said
second authentication processing step, a request to
operate the image processing device from the
information processing device is not accepted.

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20. A control program for controlling an
information processing method for use by an image

processing device which can be connected to an information processing device and perform the process comprising:

- an authentication processing step for performing,
5 in response to a request from the information processing device, an authenticating process according to authentication information from the information processing device for authenticating the request;
- 10 a display information transmission step for transmitting, from the image processing device to the information processing device, display information describing screen contents for operating the information processing device by presenting
15 information about the image processing device when a request from the information processing device is recognized based on an authentication result by said authentication processing step;
- a second authentication processing step for
20 performing an authenticating process by reading authentication information input by an operation unit of the image processing device or a card reader, wherein
- 25 when a request from the information processing device is accepted based on an authentication result by said authentication processing step, a request to operate the image processing device from the information processing device is not accepted.